

Message Text

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TO AMEMBASSY SAN SALVADOR PRIORITY

UNCLAS STATE 275779

E.O. 11652

TAGS: OGEN, EAGR, ES

SUBJECT: OPRED - USDA MOSQUITO CONTROL AGREEMENT

REF: STATE 269552

THE FOLLOWING IS DEPARTMENT'S ENGLISH TRANSLATION OF DRAFT
MOSQUITO CONTROL AGREEMENT;

QUOTE. AGREEMENT ON THE PROJECT BETWEEN THE AGRICULTURAL
RESEARCH SERVICE OF THE UNITED STATES DEPARTMENT OF
AGRICULTURE, AN AGENCY OF THE UNITED STATES OF AMERICA,
AND THE MINISTERIO DE SALUD PUBLICA Y ASISTENCIA SOCIAL
(MINISTRY OF PUBLIC HEALTH AND SOCIAL ASSISTANCE), AN
AGENCY OF THE REPUBLIC OF EL SALVADOR.

TITLE OF THE PROJECT: CONTROL OF ANOPHELES ALBIMANUS IN
EL SALVADOR BY INCORPORATING THE STERILE MALE TECHNIQUE
WITH OTHER CONTROL METHODS. REFERENCE: GENERAL AGREEMENT
FOR ECONOMIC, TECHNICAL, AND RELATED ASSISTANCE, JANUARY
16, 1962.

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BY MEANS OF THIS AGREEMENT, THE PARTIES MENTIONED ABOVE
MUTUALLY AGREE TO CARRY OUT A PROJECT IN THE TERMS
EXPRESSED HEREIN AND IN ANY ANNEX HERETO.

I. PROVISIONS

THIS AGREEMENT SHALL BE SUBJECT TO EXAMINATION TO VERIFY ITS CONFORMITY WITH THE LAWS AND REGULATIONS OF THE GOVERNMENTS OF THE TWO COUNTRIES WHICH RELATE TO THESE AGREEMENTS.

CONTRIBUTIONS OF THE PARTIES:

AGRICULTURAL RESEARCH SERVICE: SUFFICIENT FUNDS WILL BE ALLOCATED EACH YEAR TO CARRY OUT THE PROVISIONS OF THE AGREEMENT, IN ACCORDANCE WITH THE APPLICABLE LAWS AND REGULATIONS OF THE GOVERNMENT OF THE UNITED STATES.

MINISTERIO DE SALUD PUBLICA Y ASISTENCIA SOCIAL: IN KIND, ADMINISTRATIVE SUPPORT FOR ACTIVITIES CONNECTED WITH THE PROJECT.

II. PURPOSE

THE DEVELOPMENT OF INSECTICIDE RESISTANCE BY MOSQUITO VECTORS OF DISEASES OF MAN AND ANIMALS HAS OCCURRED IN MANY COUNTRIES. IN EL SALVADOR, FOR EXAMPLE, THE SPECIES CALLED ANOPHELES ALBIMANUS, EXPOSED TO AGRICULTURAL PESTICIDES, HAS DEVELOPED A RESISTANCE TO CHLORATE, ORGANOPHOSPHORATE, AND CARBAMATE INSECTICIDES, AND CONSEQUENTLY, RESEARCH ON NEW METHODS OF CONTROL OF THESE INSECTS IS IMPERATIVE.

ONE OF THESE METHODS IS THE SO-CALLED STERILE MALE TECHNIQUE. THE APPLICABILITY OF THIS METHOD TO CONTROL A. ALBIMANUS, A MALARIA VECTOR, WAS DEMONSTRATED RECENTLY IN AN AREA OF FIVE SQUARE MILES AROUND LAKE APASTEPEQUE IN EL SALVADOR. THE RELEASE OF STERILE MALES OF THIS SPECIES OVER A PERIOD OF FIVE MONTHS COMPLETELY ELIMINATED THE REPRODUCTION THAT ANNUALLY REACHES ITS MAXIMUM DURING THE PERIOD FROM SEPTEMBER TO DECEMBER, WHICH IS ASSOCIATED UNCLASSIFIED

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WITH MALARIA TRANSMISSION. IF THIS METHOD CAN BE COMBINED WITH CHEMICAL AND BREEDING METHODS OF CONTROL IN A LARGE AREA OF ENDEMIC MALARIA, IT WOULD BE POSSIBLE TO REDUCE A. ALBIMANUS POPULATIONS TO VERY LOW LEVELS AND THUS TO ERADICATE MALARIA-

AGRICULTURAL PRODUCTION DEPENDS UPON PROTECTING THE WORKERS IN THE FIELDS AND THE ANIMALS FROM DISEASE AND ANNOYANCE. IN SOME AREAS OF THE UNITED STATES IT HAS BEEN SHOWN THAT THE WORKING TIME OF FARMERS HAS BEEN REDUCED AND MEAT PRODUCTION CURTAILED BECAUSE OF THE EXISTENCE OF LARGE NUMBERS OF BITING INSECTS. THE

PURPOSE OF THIS RESEARCH IS TO DEVELOP METHODS OF PROTECTION FOR AGRICULTURAL WORKERS AND DOMESTIC ANIMALS, AND CONSEQUENTLY TO HELP SOLVE THE PROBLEM OF INCREASING AGRICULTURAL PRODUCTION.

THIS PROPOSAL PROVIDES FOR A THREE-YEAR RESEARCH PROGRAM, OF WHICH THE SPECIFIC GOAL WILL BE THE CONTROL OF A. ALBIMANUS AND MALARIA, AND BRIDGING OF THE EXISTING GAP BETWEEN APPLIED RESEARCH AND OPERATIONAL PROGRAMS BY INTEGRATING THE NEW AND THE OLD TECHNIQUES. THE RESEARCH WILL BE CONDUCTED BY THE AGRICULTURAL RESEARCH SERVICE, UNITED STATES DEPARTMENT OF AGRICULTURE, HEREINAFTER REFERRED TO AS ARS AND USDA, IN COOPERATION WITH THE STAFF OF THE CENTER FOR DISEASE CONTROL, DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE (CDC, HEW), ATLANTA, GEORGIA. THE RESEARCH WILL BEGIN IN LATE 1974. THE BASIC DATA WILL BE PREPARED AND PRELIMINARY PROCEDURAL TESTS WILL BE MADE IN 1975, WHILE THE ACTUAL CONTROL TRIAL WILL BE CONDUCTED IN CALENDAR YEAR 1976. EVALUATION OF DATA, PREPARATION OF REPORTS AND DOCUMENTS, AND TERMINATION OF THE PROJECT WILL TAKE PLACE DURING THE FIRST HALF OF CALENDAR YEAR 1977. THE RESEARCH WILL NOT ONLY PROVIDE INFORMATION ON THE EFFECTIVENESS OF A COMPLETE METHOD FOR THE CONTROL OF A MALARIA VECTOR, A. ALBIMANUS, BUT WILL ALSO PRODUCE A GREAT VOLUME OF BIOLOGICAL AND ECOLOGICAL INFORMATION ABOUT A. ALBIMANUS. RESISTANCE TO INSECTICIDES AND ENVIRONMENTAL POLLUTION ARE IMPORTANT PROBLEMS THAT AFFECT AGRICULTURAL PRODUCTION. THIS UNCLASSIFIED

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RESEARCH WILL DEVELOP METHODS FOR SOLVING THESE PROBLEMS AND WILL BE USEFUL IN WORKING OUT SIMILAR TECHNIQUES FOR APPLICATION IN THE CONTROL OF OTHER INSECTS RELATED TO AGRICULTURE.

III. PARTICIPATION OF OTHER PARTIES

THE PERSONNEL OF THE INSECTS AFFECTING MAN RESEARCH LABORATORY (IAM) AND THE NATIONAL PERSONNEL ASSIGNED TO THIS PROJECT WILL BE EMPLOYED FULL TIME, EITHER DIRECTLY OR CONTRACTUALLY, BY THE INTERNATIONAL PROGRAMS DIVISION (IPD) (ARS, USDA). ALL FACILITIES WILL BE AVAILABLE TO OTHER RESEARCHERS OF THE USDA AND CDC FOR MAKING FIELD STUDIES ON RELATED PROBLEMS. THE PROJECT WILL REQUIRE CLOSE COORDINATION BETWEEN THE STAFFS OF THE IAM, THE CENTRO DE INVESTIGACION CENTROAMERICANO (CENTRAL AMERICAN RESEARCH CENTER). (CARS), AND THE COMPANIA NACIONAL ANTIPALUDICA (NATIONAL ANTIMALARIA COMPANY) (CNAP). OTHER ORGANIZATIONS INTERESTED IN MALARIA CONTROL, SUCH AS THE WORLD HEALTH ORGANIZATION (WHO), THE PAN AMERICAN HEALTH ORGANIZATION (PAHO) AND THE ORGANIZATION OF CENTRAL

AMERICAN STATES (ODECA) WILL ALSO BE ENCOURAGED TO MAINTAIN THIS LIAISON.

IV. PLAN OF OPERATIONS

IT IS PROPOSED THAT CONTROL OF A. ALBIMANUS BE ATTEMPTED IN AN AREA OF ABOUT 150 SQUARE KILOMETERS IN THE COASTAL PLAINS OF EL SALVADOR. THE MOST ADVISABLE SITE WOULD INCLUDE THE AREA DESIGNATED AS DISTRICT 13 BY THE NATIONAL MALARIA ERADICATION PROGRAM OF EL SALVADOR. THIS IS AN AGRICULTURAL AREA WITH A POPULATION OF APPROXIMATELY 6,000 PEOPLE. CARS AND CNAP PERSONNEL HAVE STUDIED THE MALARIA PROBLEM IN DISTRICT 13 FOR SEVERAL YEARS AND HAVE ESTABLISHED THAT THE YEARLY INCIDENCE OF MALARIA IS VERY HIGH. THE PEAK NUMBER OF CASES EACH YEAR COINCIDES WITH THE PROLIFERATION OF A. ALBIMANUS DURING THE RAINY SEASON. HIGH INTENSITY SPRAYING WITH INSECTICIDES FOR COTTON INSECT CONTROL CAUSES A DECREASE IN THE BREEDING RATE OF THE MOSQUITO AT THE END OF THE RAINY SEASON AND AT THE UNCLASSIFIED

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BEGINNING OF THE DRY SEASON, AND IN THE INCIDENCE OF MALARIA.

THE REPRODUCTION OF A. ALBIMANUS WILL BE REDUCED BY A COMBINATION OF LARVICIDE AND ADULTICIDE TREATMENTS DURING THE EARLY PART OF THE DRY SEASON. THE BREEDING AREAS WILL THEN BE INUNDATED WITH STERILE MALES. THE COMBINATION OF THESE METHODS SHOULD REDUCE THE NORMAL DRY-SEASON MOSQUITO POPULATION BY MORE THAN 99 PERCENT. AT THE ONSET OF THE RAINY SEASON, THE RELEASE OF STERILE MALES WILL BE INTENSIFIED AND EXTENDED TO ALL NEW BREEDING AREAS THAT MAY DEVELOP.

THE RELEASES WILL COVER A SUFFICIENT AREA SO THAT THE IMMIGRATION OF FEMALES FROM UNTREATED BOUNDARY AREAS WILL NOT AFFECT THE CENTRAL PORTION OF THE TEST AREA WHERE THE PRIMARY ENTOMOLOGICAL AND EPIDEMIOLOGICAL SURVEYS ARE TO BE MADE. IF THE MIGRATION EXCEEDS THE ESTIMATES, INSECTICIDE TREATMENTS WILL BE MADE ALONG THE BORDERS TO REDUCE THE PROBLEM.

IT IS ANTICIPATED THAT THE MASS REARING OF ABOUT 500,000 MALES PER DAY WILL BE ACCOMPLISHED IN LEASED AND RENOVATED FACILITIES, WITH LOCAL PERSONNEL. STERILIZATION OF THE MALE MOSQUITOES WILL BE EFFECTED BY EXPOSING THEM TO SOLUTIONS OF CHEMOSTERILANT IN THE LABORATORY. DISTRIBUTION OF THE MALES IN THE FIELD WILL BE CARRIED OUT BY SALVADORAN TECHNICIANS, AND CONSTANT SURVEILLANCE OF MOSQUITO POPULATIONS IN THE FIELD WILL BE PERFORMED BY A DIFFERENT TEAM OF TECHNICIANS. EPIDEMIOLOGICAL SURVEYS

ON MALARIA IN THE TEST AREA AND IN A COMPARABLE CONTROL AREA WILL BE THE RESPONSIBILITY OF CARS IN COOPERATION WITH CNAP.

A GENERAL OUTLINE OF THE WORK PLAN AND TIME SCHEDULE IS GIVEN IN ANNEX 1. COMPLETE SUPERVISION WILL BE CARRIED OUT BY A PROJECT LEADER AND A RESEARCH ASSISTANT, TO BE TRANSFERRED FROM IAM TO EL SALVADOR. IT IS ESTIMATED THAT THE NATIONAL STAFF WILL CONSIST OF AN ADMINISTRATIVE ASSISTANT, A SECRETARY, THREE SUPERVISORY TECHNICIANS, SIX UNCLASSIFIED

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RESEARCH TECHNICIANS, 20 INSECT BREEDERS, THREE GUARDS OR DRIVERS, AND 15 TO 20 PART-TIME WORKERS.

CHANGES IN THE STAFF OF EITHER THE UNITED STATES OR EL SALVADOR WILL BE MADE ACCORDING TO THE NEEDS OF THE PROGRAM.

COOPERATIVE LIAISON WILL BE MAINTAINED WITH THE MINISTERIO DE SALUD PUBLICA Y ASISTENCIA SOCIAL IN ORDER TO ENSURE THAT THE CURRENT PROGRAMS OF THE GOVERNMENT CONTINUE WITHOUT INTERRUPTION.

SUPPORTING STUDIES ON MOSQUITO CONTROL TECHNIQUES BY OTHER METHODS MAY BE CONDUCTED WHEN APPROPRIATE TO THE INTERESTS OF THE PROJECT.

V. RESPONSIBILITIES AND OBLIGATIONS

A. MINISTERIO DE SALUD PUBLICA Y ASISTENCIA SOCIAL:

1. TO SUPPORT THIS PROGRAM ACTIVELY THROUGH PROVIDING ADMINISTRATIVE ASSISTANCE IN PUBLIC RELATIONS AND EXPEDITING THE PROCEDURAL OPERATIONS REQUIRED BY THE PROJECT.
2. TO ENSURE THAT MOSQUITO ABATEMENT ACTIVITIES AND DRUG TREATMENT PROGRAMS FOR MALARIA CONTROL CURRENTLY IN FORCE IN THE TEST SITE NOT BE EXTENDED, AND THAT CHANGES BE MUTUALLY AGREED.
3. TO ENSURE THE AVAILABILITY, AT PREVAILING RATES, OF PUBLIC SERVICES (TELEPHONE, WATER, ELECTRICITY, SEWER).

B. THE AGRICULTURAL RESEARCH SERVICE:

1. TO BEAR THE COSTS OF THE PROJECT, INCLUDING: (A) ACQUISITION, RENOVATION, LEASE, AND MAINTENANCE OF PREMISES;
- (B) PURCHASE OF THE NECESSARY EQUIPMENT, VEHICLES, AND OTHER ITEMS AS REQUIRED; AND (C) PAYMENT OF UTILITIES AT

PREVAILING RATES.
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2. TO FURNISH UNITED STATES AND NATIONAL PERSONNEL.
3. TO FINANCE CONTRACTUAL ARRANGEMENTS WITH OTHER NATIONAL OR INTERNATIONAL AGENCIES FOR ESSENTIAL SERVICES.
4. TO DIRECT THE TECHNICAL AND ADMINISTRATIVE ACTIVITIES OF THE PROJECT.

VI. FINANCIAL PROVISIONS

ARS WILL DISTRIBUTE FUNDS AND CARRY OUT THE OPERATIONS SET FORTH IN THIS AGREEMENT IN CONFORMITY WITH THE APPLICABLE LAWS AND REGULATIONS OF THE GOVERNMENT OF THE UNITED STATES.

VII. DURATION OF THE AGREEMENT

THIS AGREEMENT SHALL ENTER INTO FORCE ON THE DATE OF THE EXCHANGE OF NOTES CONFIRMING IT BETWEEN THE TWO GOVERNMENTS.

VIII. AMENDMENTS OR EXTENSIONS

THIS AGREEMENT MAY BE AMENDED OR EXTENDED AT ANY TIME, IN WRITING, BY MUTUAL CONSENT OF THE PARTIES, OR IT MAY BE TERMINATED BY EITHER PARTY BY MEANS OF A NOTIFICATION IN WRITING AT LEAST SIXTY DAYS IN ADVANCE. END QUOTE. KISSINGER

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